|  |  |  |  |
| --- | --- | --- | --- |
| **Modeled Region** | **Model Type** | **Number of Non-zero Parameters in Model** | |
| **Non-regularized** | **Lasso-regularized** |
| **Single Cell** | **Linear Regression (LR)** | 11\* | - |
| **VAR(1)** | 132 | 44 |
| **VAR(2)** | 253 | 51 |
| **VAR(10)** | - | 81 |
| **Multi-Cell** | **Linear Regression (LR)** | 11\* | - |
| **VAR(1)** | 56,628 | 3,068 |
| **VAR(2)** | 56,232 | 3,559 |
| **VAR(10)** | 53,064 | 5,106 |

*\*The linear regression uses 11 parameters* ***per model****; one* ***independent*** *model is created for each variable in this paradigm*